



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,151	08/21/2003	Hyung-Seok Yu	678-1041 (P10425)	8924
28249	7590	10/20/2006	EXAMINER	
DILWORTH & BARRESE, LLP 333 EARLE OVINGTON BLVD. UNIONDALE, NY 11553			VU, MICHAEL T	
			ART UNIT	PAPER NUMBER

2617

DATE MAILED: 10/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/646,151	Applicant(s) YU, HYUNG-SEOK	
	Examiner Michael Vu	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 August 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3 and 5-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3 and 5-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's Remarks/Arguments filed August 02, 2006, have been fully considered but they are not persuasive.

In response to applicant's Remarks/Arguments in claims 1, and 3 that reference Kaaresoja "does not teach or reasonably suggest linking respective vibration patterns with respective telephone numbers. In addition, Kaaresoja does not teach generating the vibration pattern corresponding to the incoming call number, but executing the received tactile icons themselves" on page 2, line 18-21.

Examiner respectfully disagrees. The examiner must give the broadest reasonable interpretation to all claims 1, and 3 that Kaaresoja teaches a mobile phone or telecommunications terminal that sends and receives tactile (tactile sensation patterns, including vibration patterns), and further teaches generating the vibration pattern corresponding to the incoming call number based on an incoming call or a waiting message (See Kaaresoja paragraph [0029], and Abstract, mentioned a mobile phone that sends and receives including vibration pattern, further a mobile device in Figure 1, has a controller/CPU/microprocessor that has a memory that contained and stored different vibration patterns, See Figures 1-3, paragraph [0029-0045]).

In response to applicant's Remarks/Arguments in claims 1, and 3 that reference Uriya "fails to recite setting the vibration pattern according to the incoming call number,

Art Unit: 2617

and Kaaresoja, Uriya, or any combination fails to teach or reasonably suggest providing caller information through a vibration pattern generated upon receiving the incoming call" on page 3, line 6-10.

Examiner respectfully disagrees. The examiner must give the broadest reasonable interpretation to all claims 1, and 3 that Kaaresoja and Uriya teach a mobile device such as mobile telephone that received the incoming call with different vibration patterns (See Figures 1-3, paragraph [0029-0045] of Kaaresoja), and Uriya further teaches a mobile phone that transmits and receives calls (See Abstract, Figures 10-11, Col. 8, Line 35 through Col. 9, Line 43) of Uriya.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1 and 3 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 3, 5-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaaresoja (US 2002/0177471) in view of Uriya (US 6,574,489).

Regarding **Claims 1 and 3**, Kaaresoja teaches a method for giving notice of an incoming call in a mobile communication terminal [0029], comprising the steps of: storing a plurality of vibration patterns (Fig. 3, [0012, 0034], the different ways vibration patterns) the plurality of vibration patterns including information associated with time periods for which vibration generation is maintained [0032-0034], **but is not clear on** time periods for which vibration generation stops, and intensity of vibration for each time period; setting a vibration pattern, from among the stored vibration patterns for a particular telephone number of previously stored telephone numbers in a particular incoming notification mode; and when an incoming call is received from a caller, generating vibration based on the set vibration pattern if a telephone number of the incoming call matches the particular telephone.

However, Uriya teaches an incoming call notification method and device for a multimode radio device having a speaker, display, or vibrator that respectively output a different sound, display content, or vibration according to the current communication mode; and a control unit that controls operations, including the intensity (**RPM or Amplitude**) of vibration for each time period (Fig. 10-11, C2, L53-67, C8, L39-67 to C9, L1-43, C12, L16-54).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kaaresoja, such that time periods for which vibration generation stops, and intensity of vibration for each time period; setting a

vibration pattern, from among the stored vibration patterns for a particular telephone number of previously stored telephone numbers in a particular incoming notification mode; and when an incoming call is received from a caller, generating vibration based on the set vibration pattern if a telephone number of the incoming call matches the particular telephone, to distinguish or identify which incoming call belongs to based on the set of vibration pattern.

Regarding **Claim 5**, Kaaresoja/Uriya teach the method as set forth in claim 3, wherein the plurality of vibration patterns are configured by inputs of an intensity adjustment key and a time adjustment key (Fig. 2-3, [0032-0034]) of Kaaresoja.

Regarding **Claim 6** Okano teaches the method as set forth in claim 5, wherein the intensity adjustment key is a volume adjustment key of the mobile communication terminal and the time adjustment key is one of a left and right direction key of the mobile communication terminal (Fig. 2-3, [0032-0034]) of Kaaresoja.

Regarding **Claim 7**, Kaaresoja/Uriya teach the method as set forth in claim 5, wherein the configuring and storing the plurality of vibration patterns according to a user's input comprises the steps of: displaying a graph (**Image/Icon**) corresponding to information associated with time periods for which vibration generation is maintained, time periods for which vibration generation stops, and intensity of vibration for each time period, in response to the inputs of the intensity adjustment key and the time adjustment key from the user; and storing a vibration pattern based on the displayed graph in response to a configuration completion command from the user (Fig. 2, 7, and Fig. 11

Images A-N, C2, L49-67 to C3, L1-25, C4, L46-67 to C5, L1-12) of Uriya and (Fig. 2-3 [0032-0034] of Kaaresoja.

Regarding **Claim 8**, Kaaresoja/Uriya teach the method as set forth in claim 3, wherein the plurality of vibration patterns are displayed in form of a graph according to a user's request Fig. 2, 7, and Fig. 11 Images A-N, C2, L49-67 to C3, L1-25, C4, L46-67 to C5, L1-12) of Uriya and (Fig. 2-3 [0032-0034] of Kaaresoja.

Regarding **Claim 9**, Kaaresoja/Uriya teach the method as set forth in claim 3, wherein the plurality of vibration patterns are displayed in text form according to a user's request (C2, L49-67 to C3, L1-25) of Uriya.

Conclusion

2. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of


the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Vu whose telephone number is (571) 272-8131. The examiner can normally be reached on 8:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen can be reached on 571-272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael T. Vu


DUC M. NGUYEN
SUPERVISORY PRIMARY EXAMINER
TECHNOLOGY CENTER 2600